

Attorney Docket No.: 06244-00002 (CHM-0003)
Inventors: Hulkower et al.
Serial No.: 10/775,780
Filing Date: February 10, 2004
Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-136 (canceled).

Claim 137 (previously presented): A device for detecting an analyte comprising:

an analyte-specific compound that binds to a select analyte so that a detectable compound is produced; and

at least one porphyrin dye which binds the detectable compound thereby producing a detectable response.

Claim 138 (previously presented): The device of claim 137, further comprising:

an enzyme conjugated to the analyte-specific compound; and

a substrate of the enzyme, wherein the enzyme and substrate produce the detectable compound.

Claim 139 (previously presented): The device of claim 137, further comprising:

a conjugate comprising an enzyme and a non-analyte-specific compound, wherein the non-analyte specific compound binds to the analyte-specific compound; and

a substrate of the enzyme, wherein the enzyme and substrate produce the detectable compound.

Attorney Docket No.: 06244-00002 (CHM-0003)
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Serial No.: 10/775,780
Filing Date: February 10, 2004
Page 4

Claim 140 (previously presented): The device of claim 138, further comprising a capture analyte-specific compound.

Claim 141 (previously presented): The device of claim 139, further comprising a capture analyte-specific compound.

Claim 142 (previously presented): A device for quantifying an analyte in a sample comprising:

a tracer comprising an analyte molecule bound to an enzyme;

a receptor molecule which binds an analyte molecule from a sample or the tracer;

a substrate of the enzyme, wherein the enzyme and substrate produce a detectable compound; and

at least one porphyrin dye which binds the detectable compound thereby producing a detectable response.

Claims 143-147 (canceled).

Claim 148 (previously presented): A kit for detecting an analyte comprising an analyte-specific compound and at least one porphyrin dye.

Claim 149 (previously presented): The kit of claim 148, further comprising an enzyme conjugated to the analyte-specific compound and a substrate of the enzyme.

Claim 150 (previously presented): The kit of claim 148, further comprising a conjugate comprising an enzyme and a non-analyte-specific compound and a substrate of the enzyme.

Attorney Docket No.: 06244-00002 (CHM-0003)
Inventors: Hulkower et al.
Serial No.: 10/775,780
Filing Date: February 10, 2004
Page 5

Claim 151 (previously presented): The kit of claim 149, further comprising a capture analyte-specific compound.

Claim 152 (previously presented): The kit of claim 150, further comprising a capture analyte-specific compound.

Claim 153 (previously presented): A kit for quantifying an analyte in a sample comprising a tracer comprising an analyte molecule bound to an enzyme, a receptor molecule, a substrate of the enzyme, and at least one porphyrin dye.